



State of New Hampshire  
DEPARTMENT OF ENVIRONMENTAL SERVICES

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Mr. Jerry W. Greene  
Chairman  
Town of Wilton  
P.O. Box 83  
Wilton, NH 03086

May 17, 2002  
**Letter of Deficiency**  
DAM #254.09

RE: New Wilton Reservoir, Wilton

Dear Chairman Greene:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that plays a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on November 6, 2002. During this visual inspection and/or file review, the following deficiencies were observed:

There were small and large trees within ten feet of both the left and right groins/abutments of the dam both upstream and downstream;

2. There was wood debris along the upstream face of the dam;
3. There was small brush growth along the upstream embankment, which appears to be maintained at least seasonally;
4. There was re-growth of small trees 1 to 2 inches in diameter all along the downstream embankment with a heavy fern growth over the entire downstream embankment;
5. The entire toe area was completely saturated with flow observed bypassing a previously constructed weir at the base of the right downstream groin. It should be noted that the previously constructed weirs were no longer functioning and appeared to not be maintained. It also should be noted that the flow may be collecting at the groins of the dam from off site slopes;
6. There was sloughing of soils observed just above the outlet headwall near the toe of the dam. It should be noted that the downstream slope of the dam is 2 horizontal to 1 vertical;
7. The vegetation is sparse at the crest of the dam and is undesirable along both the upstream and downstream embankments;
8. The gate building to the dam had been vandalized exposing the low-level gate control mechanisms. It should be noted that the building was open and easily accessible; and
9. The Emergency Action Plan (EAP) is in need of testing and updating,

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DES believes that the above deficiencies can be corrected by performing the following items prior to the indicated schedule:

August 1, 2002:

1. Remove the small and large trees within 10 feet of both the left and right groins/abutments of the dam both upstream and downstream;

Remove the wood debris from the upstream face of the dam and dispose of properly;

3. Cut the brush growing along the upstream embankment of the dam;
4. Cut the re-growth of small trees and heavy fern growth all along the downstream embankment;
5. Repair the gatehouse to eliminate access by trespassers and place a trash rack/locking mechanism over the stoplogs to eliminate vandalism;

December 1, 2002:

6. Develop a plan to control the seepage, which appears to be at both the left and right groins of the downstream embankment;

7. As part of the seepage control plan, formulate a plan to eliminate the historic sloughing of soils above the outlet headwall;

Develop a plan to re-vegetate the crest of the dam and both the upstream and downstream embankments with a suitable erosion resistant cover; and

9. Complete the testing and updating of the EAP and forward your results to Bethann McCarthy, P.E., DES Emergency Action Plan coordinator.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

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If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,

A handwritten signature in black ink is written over the word "COPY". The signature appears to be "Dale F. Guinn".

Dale F. Guinn, P.E.  
Dam Safety Engineer

Attachments DB8, DB13

cc: Gretchen Rule✓

Certified # 7099 3400 0002 9773 7545

DFG/was/h:/safety/wendy/lod/254-09lod.doc